

REDHILL BIOPHARMA LTD.

FORM 6-K (Report of Foreign Issuer)

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Industry	Biotechnology & Medical Research
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**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

FORM 6-K

**Report of Foreign Private Issuer
Pursuant to Rule 13a-16 or 15d-16
of the Securities Exchange Act of 1934**

For the month of April 2017
Commission File No.: 001-35773

REDHILL BIOPHARMA LTD.
(Translation of registrant's name into English)

21 Ha'arba'a Street, Tel Aviv, 64739, Israel
(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.
Form 20-F Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Attached hereto and incorporated by reference herein is a press release issued by the Registrant entitled: *"RedHill Biopharma to Host R&D Day on BEKINDA® for Acute Gastroenteritis and IBS-D"*

This Form 6-K is incorporated by reference into the Company's Registration Statements on Form S-8 filed with the Securities and Exchange Commission on May 2, 2013 (Registration No. 333-188286) and on October 29, 2015 (Registration No. 333-207654) and its Registration Statement on Form F-3 filed with the Securities and Exchange Commission on February 25, 2016 (Registration No. 333- 209702).

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

REDHILL BIOPHARMA LTD.
(Registrant)

Date: April 19, 2017

By: /s/ Dror Ben-Asher
Dror Ben-Asher
Chief Executive Officer

RedHill Biopharma to Host R&D Day on BEKINDA® for Acute Gastroenteritis and IBS-D

- **The R&D Day on BEKINDA® will take place on Thursday, April 27, 2017 in NYC from 8:00-10:00 EDT; A live webcast will be available through RedHill's website**
- **Top-line results from a Phase III study with BEKINDA® 24 mg for acute gastroenteritis and gastritis are expected in Q2/2017**
- **Top-line results from a Phase II study with BEKINDA® 12 mg for diarrhea-predominant irritable bowel syndrome (IBS-D) are expected in Q3/2017**

TEL-AVIV, Israel, April 19, 2017 (GLOBE NEWSWIRE) -- RedHill Biopharma Ltd. (NASDAQ:RDHL) (Tel-Aviv Stock Exchange:RDHL) ("RedHill" or the "Company"), a specialty biopharmaceutical company primarily focused on the development and commercialization of late clinical-stage, proprietary, orally-administered, small molecule drugs for gastrointestinal and inflammatory diseases and cancer, today announced that it will host an analysts and investors R&D Day on BEKINDA®, on Thursday, April 27, 2017 from 8:00-10:00 am EDT, in NYC. **The event will also be available via live webcast through the 'Investors' section of the Company's website.**

Members of RedHill's executive team will be joined by key opinion leaders who will discuss BEKINDA®, its indications, the current treatment landscape, potential markets and the ongoing Phase III and II studies for acute gastroenteritis and IBS-D, respectively. A question and answer panel will be held following the presentations.

BEKINDA® is a proprietary, bimodal extended-release, once-daily oral pill formulation of ondansetron, targeting several gastrointestinal indications. BEKINDA® is intended to provide patients with relief from nausea and vomiting symptoms for a full 24-hour period with a single oral tablet.

Top-line results from a Phase III study with BEKINDA® 24 mg for acute gastroenteritis and gastritis (the GUARD study) are expected in the second quarter of 2017. In February 2017, RedHill announced that the last patient had completed the treatment course and observation period in the randomized, double-blind, placebo-controlled GUARD study, which treated 320 adults and children over the age of 12 in 29 U.S. clinical sites.

A randomized, double-blind, placebo-controlled Phase II study with BEKINDA® 12 mg is currently ongoing for the treatment of diarrhea-predominant irritable bowel syndrome (IBS-D). The Phase II study is evaluating the safety and efficacy of BEKINDA® 12 mg in adults over the age of 18 with IBS-D in 16 clinical sites in the U.S. Top-line results are expected in the third quarter of 2017.

A live webcast of the event, including the slide presentation, will be available on the Company's website at: <http://ir.redhillbio.com/events.cfm>. Please access the Company's website at least 15 minutes ahead of the conference to register, download, and install any necessary audio software. A replay of the webcast will be available on the Company's website for a period of 30 days. Further information is available on the Company's website.

The Phase III GUARD study and Phase II study with BEKINDA® are registered on www.ClinicalTrials.gov, a web-based service of the U.S. National Institutes of Health, which provides access to information on publicly and privately supported clinical studies.

About BEKINDA® (RHB-102):

BEKINDA® is a proprietary, bimodal extended-release (24 hours) oral pill formulation of ondansetron, covered by several issued and pending patents. A Phase III clinical study of BEKINDA® 24 mg formulation for acute gastroenteritis and gastritis (the GUARD study) is ongoing in the U.S., with patient treatment course and observation period completed and top-line results expected in the second quarter of 2017. A Phase II study with BEKINDA® 12 mg formulation is ongoing in the U.S. for the treatment of diarrhea-predominant irritable bowel syndrome (IBS-D), with top-line results expected in the third quarter of 2017.

About RedHill Biopharma Ltd.:

RedHill Biopharma Ltd. (NASDAQ:RDHL) (Tel-Aviv Stock Exchange:RDHL) is a specialty biopharmaceutical company headquartered in Israel, primarily focused on the development and commercialization of late clinical-stage, proprietary, orally-administered, small molecule drugs for the treatment of gastrointestinal and inflammatory diseases and cancer. RedHill has a U.S. co-promotion agreement with Concordia for **Donnatal®**, a prescription oral adjunctive drug used in the treatment of IBS and acute enterocolitis, as well as an exclusive license agreement with Entera Health for **EnteraGam®**, a medical food intended for the dietary management, under medical supervision, of chronic diarrhea and loose stools. RedHill's clinical-stage pipeline includes: (i) **RHB-105** - an oral combination therapy for the treatment of *Helicobacter pylori* infection with successful results from a first Phase III study; (ii) **RHB-104** - an oral combination therapy for the treatment of Crohn's disease with an ongoing first Phase III study, a completed proof-of-concept Phase IIa study for multiple sclerosis and QIDP status for nontuberculous mycobacteria (NTM) infections; (iii) **BEKINDA® (RHB-102)** - a once-daily oral pill formulation of ondansetron with an ongoing Phase III study for acute gastroenteritis and gastritis and an ongoing Phase II study for IBS-D; (iv) **RHB-106** - an encapsulated bowel preparation licensed to Salix Pharmaceuticals, Ltd.; (v) **YELIVA® (ABC294640)** - a Phase II-stage, orally-administered, first-in-class SK2 selective inhibitor targeting multiple oncology, inflammatory and gastrointestinal indications; (vi) **MESUPRON** - a Phase II-stage first-in-class, orally-administered protease inhibitor, targeting pancreatic cancer and other solid tumors and (vii) **RIZAPORT® (RHB-103)** - an oral thin film formulation of rizatriptan for acute migraines, with a U.S. NDA currently under discussion with the FDA and marketing authorization received in two EU member states under the European Decentralized Procedure (DCP). More information about the Company is available at: www.redhillbio.com.

This press release contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Such statements may be preceded by the words "intends," "may," "will," "plans," "expects," "anticipates," "projects," "predicts," "estimates," "aims," "believes," "hopes," "potential" or similar words. Forward-looking statements are based on certain assumptions and are subject to various known and unknown risks and uncertainties, many of which are beyond the Company's control, and cannot be predicted or quantified and consequently, actual results may differ materially from those expressed or implied by such forward-looking statements. Such risks and uncertainties include, without limitation, risks and uncertainties associated with (i) the initiation, timing, progress and results of the Company's research, manufacturing, preclinical studies, clinical trials, and other therapeutic candidate development efforts; (ii) the Company's ability to advance its therapeutic candidates into clinical trials or to successfully complete its preclinical studies or

clinical trials; (iii) the extent and number of additional studies that the Company may be required to conduct and the Company's receipt of regulatory approvals for its therapeutic candidates, and the timing of other regulatory filings, approvals and feedback; (iv) the manufacturing, clinical development, commercialization, and market acceptance of the Company's therapeutic candidates; (v) the Company's ability to successfully market Donnatal[®] and EnteraGam[®], (vi) the Company's ability to establish and maintain corporate collaborations; (vii) the Company's ability to acquire products approved for marketing in the U.S. that achieve commercial success and build its own marketing and commercialization capabilities; (viii) the interpretation of the properties and characteristics of the Company's therapeutic candidates and of the results obtained with its therapeutic candidates in research, preclinical studies or clinical trials; (ix) the implementation of the Company's business model, strategic plans for its business and therapeutic candidates; (x) the scope of protection the Company is able to establish and maintain for intellectual property rights covering its therapeutic candidates and its ability to operate its business without infringing the intellectual property rights of others; (xi) parties from whom the Company licenses its intellectual property defaulting in their obligations to the Company; and (xii) estimates of the Company's expenses, future revenues capital requirements and the Company's needs for additional financing; (xiii) competitive companies and technologies within the Company's industry. More detailed information about the Company and the risk factors that may affect the realization of forward-looking statements is set forth in the Company's filings with the Securities and Exchange Commission (SEC), including the Company's Annual Report on Form 20-F filed with the SEC on February 23, 2017. All forward-looking statements included in this Press Release are made only as of the date of this Press Release. We assume no obligation to update any written or oral forward-looking statement unless required by law.

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